

### Chemical Control For Wheat Smut Seen in Report

Richland, Wash. — (Science Service)—Wheat smut, a fungus disease that could cost U.S. wheat growers many millions of dollars a year, is expected to be brought under chemical control.

Dr. Vernon H. Cheldelin of Oregon State college told an American Chemical society meeting here that a substance believed responsible for the dwarfing of wheat, one of the first symptoms of the disease, has been identified. The substance is a natural product of a smut fungus called *Tilletia controversa*.

The material, oxalic acid, is capable of removing from wheat tissue nutrients that are essential to growth, Dr. Cheldelin said.

Research on the life process of smut fungi is expected to reveal information on the nature of the parasites and on the resistance of wheat to them. This insight may lead to logical control methods, Dr. Cheldelin reported.

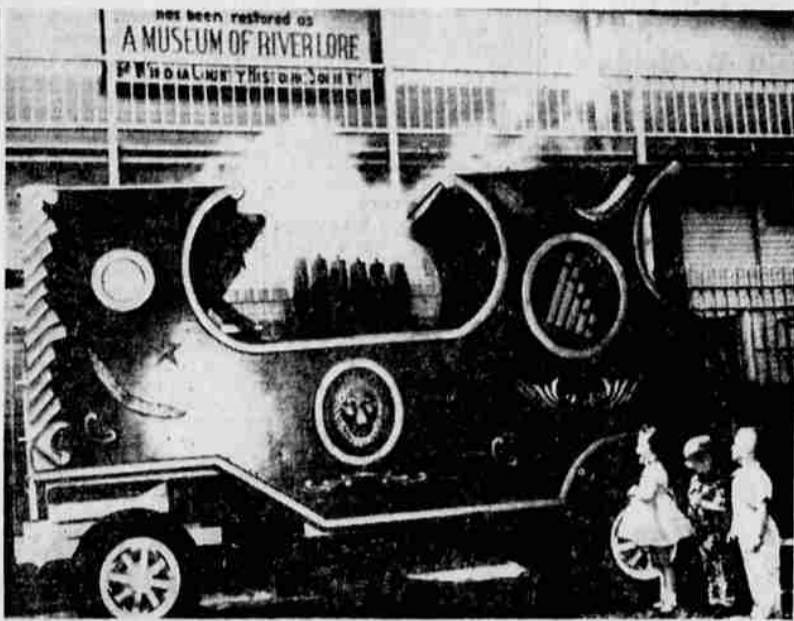
The only defense against wheat smut at present is to breed resistant strains of wheat. However, smut fungi can, by interbreeding or mutation, produce new races capable of attacking the "resistant" wheat.

Wheat smut, which seriously limits the wheat crop in the northwestern states and threatens to spread to every wheat center in the world, shows up as black spores that replace the wheat kernels.

E. J. Vaisey and Dr. R. W. Newburgh, also of Oregon State college, were coauthors of the report.

### CHRISTIAN'S MARKET

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**CALLIOPE SOUNDS OFF**—Young listeners Minn. The instrument is one of the last seven known playable steam calliopes in the United States. (UPI Telephoto)

### 'Steamboat Days' to Inaugurate Presentation of River Relics

Winona, Minn. — (UPI) — The rollicking music of a steam calliope will sound on the Mississippi river here as it prelude to this city's annual "Steamboat Days" July celebration.

The special "Steam-up Day" will mark the presentation of valuable historical relics to the Winona Historical society by three brothers who were born in Winona and went on to establish a worldwide machine tool business.

The calliope, said to be one of the few remaining of these fast-disappearing instruments in the U.S., is an echo from the romantic steamboat days of another era.

When young America pushed westward to new frontiers in the 19th century, showboats made Winona a regular port of call. Their blaring calliopes called the fun-loving to the Mississippi levees for an evening's entertainment.

The Winona calliope has 32 whistles and its music can be heard for 10 miles up and down the river.

Its music will signal the start of festivities at the Steamboat museum, which is being restored by the Winona Historical society.

There will be presentations of rare letters written by Robert Fulton, inventor of the steamboat; original Currier & Ives prints of Mississippi river scenes; the calliope; and other steamboat memorabilia by Robert James and Leighton Wilkie.

Built in 1898 The brothers are owners of the DoAll company, Des Plaines, Ill., and founders of the Wilkie Foundation, a philanthropic corporation.

The steamboat housing the museum was built in 1898. It was the next to the last of these craft to ply the upper reaches of the Mississippi river.

Renovation of the steam-

boat as a permanent link between the steamboat days and the present was accomplished through the contributions of school children, businessmen and the Wilkie Foundation.

### Big Money Paid For Suggestions

Rochester, N.Y. — (UPI) — Eastman Kodak Co. employees found a nest egg of considerable size in the firm's suggestion box in 1959.

Awards to workers for suggestions to improve products or manufacturing methods totaled \$313,000. Close to 40 per cent of the 37,000 ideas submitted by more than a quarter of all Kodak employees were accepted.

Top award of \$8,000 was shared by two men who suggested enclosures be built around the drier sections of machines used in making photographic paper.

### Asian Impact Yet To Be Fully Measured In United Nations

United Nations, N.Y. — (UPI) — Asia plays a leading role in the United Nations but the Asian impact is yet to be fully measured.

The big issue—Chinese representation—remains unresolved after 10 years of furious debate.

Communist China, with upwards of 600 million people, is not a UN member. Nationalist China, with a population of about 10 million on Formosa, is a member and has veto power in the Security Council.

Korea is divided into Communist and non-Communist parts. So is Viet Nam. Neither country is represented here. Outer Mongolia, a Communist state compressed between China and Siberia, has been kept outside by a Chinese Nationalist veto.

Therefore, Asian peoples comprising about one-fourth of the world population have no representation at all in the world organization.

While this state of affairs remains, no one can be certain of the full extent of Asian influence in the U.N. But, if 680 million Asians have no voice at U.N. headquarters, another 840 million do. They form the biggest regional grouping.

To most Asian diplomats, the China problem overrides all others in importance to the future of the United Nations.

They argue that whether Communist China gets into the U.N. or not, it cannot be ignored as a world power. It must be taken into account in reaching agreement on such vital matters as disarmament.

### Animal Tumors Produce Many 'Compounds'

Los Angeles (Science Service) — A bewildering assortment of "disease compounds" associated not only with cancer but with other serious illnesses as well are being produced by experimental animal tumors.

Drs. William G. Clark and William J. Hartman of the University of California Medical school, Los Angeles, and the Sepulveda Veterans Administration hospital are conducting research with mast cell tumors, which are transplantable in animals.

Normal mast cells are tiny deposits of interesting compounds. Clusters of them are found in the body, particularly in the connective tissue sheathing of organs and tissues. They are also found in association with inflammation and cancer growths.

Others Also Produced The cancerous mast cells produce in large quantities not only the compounds of normal mast cells but several others that may not be present in the normal mast cells or present in too small amounts to be recognized.

Chemicals so far identified in mast cell tumors have been implicated in mental disease, shock and allergy, inflammation, circulatory and heart diseases, high blood pressure, rheumatic heart disease, excessive stomach secretion and irregularities of nerve transmission.

These include histamine, which is released in high concentration during allergies and acute infections; serotonin, which may be involved in brain function; adrenalin and noradrenalin, the stress hormones; and heparin, blood clotting agent.

Drs. Clark and Hartman are attempting to learn how all these compounds in mast cells are produced and stored and enter into body chemistry. They are also seeking natural or artificial chemicals which would block the production of these substances. These might lead to more effective control of diseases in which these substances are implicated.

The research is supported by the National Science Foundation, California Institute for Cancer Research, U. S. Public Health service and American Cancer society.

### Dog Stands Watch After Owner Crashes

Boone, N.C. — A car being driven by Mrs. Lawrence H. Owsley skidded on the wet pavement and smashed into a truck. Mrs. Owsley was rushed to the hospital.

No one can explain the resultant actions of Mrs. Owsley's pet dog, Bebee.

Almost immediately after the accident, Bebee disappeared from the Owsley house, which was locked. The dog was found standing guard over Mrs. Owsley's wrecked car, a mile from the house. Bebee would not budge until the family maid came to pick him up.

At 10 consecutive general assembly sessions, the majority has voted to bury the issue of membership for the Peking government. There is no present prospect of reversing that action.

Individuals have been more important than countries in

providing leadership of Asian delegations. Many Asian statesmen, including a number from small countries, have left their mark on the organization.

India has been the most consistent leader among the delegations. Its able repre-

sentatives usually take the initiative in mobilizing Asian and African response to issues of interest to those regions. Competed With India

Japan, which became a member in 1956, has to some degrees competed with India for group leadership. But Japan, oriented toward the West, follows a middle-of-the-road policy in Asian affairs that inhibits Japanese delegates. Numerically, at least, the

Asian position in the U.N. is threatened. There are 22 members from Asia and Asia Minor, compared with 10 from Africa.

But Africa may have 25 or more members within the next five years.

At any time, Asia's voting power in the U.N. will be small, considering that more than half of the world's people live on or adjacent to that teeming continent.

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- This contest is open to any person living in the United States—except employees of the Real Gold Company, its advertising agencies and members of their families. This contest is subject to Federal, State and local regulations. You accept these rules when you submit your entry.

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